

Contents for Volume 35, 1998

VOLUME 35 ■ JANUARY 1998 ■ NUMBER 1

Call for Papers	iii
On the Status of Individual Response Specificity MICHAEL MARWITZ AND GERHARD STEMMLER	1
Heart Period Variability of Trained and Untrained Men at Rest and During Mental Challenge STEPHEN H. BOUTCHER, F.W. NUGENT, PETER F. MCLAREN, AND ARTHUR L. WELTMAN	16
Stimulus Context Determines P3a and P3b JUN'ICHI KATAYAMA AND JOHN POLICH	23
Postperceptual Effects and P300 Latency HARTMUT LEUTHOLD AND WERNER SOMMER	34
Hemodynamics During Rest and Behavioral Stress in Normotensive Men at High Risk for Hypertension WILLIAM R. LOVALLO AND MUSTAFA AL'ABSI	47
Brain ERPs of Depressed Patients to Complex Tones in an Oddball Task: Relation of Reduced P3 Asymmetry to Physical Anhedonia GERARD E. BRUDER, CRAIG E. TENKE, JAMES P. TOWEY, PAUL LEITE, REGAN FONG, JONATHAN E. STEWART, PATRICK J. MCGRATH, AND FREDERIC M. QUITKIN	54
Development of Oculomotor Functioning in Preadolescence, Adolescence, and Adulthood JOANNA KATSANIS, WILLIAM G. IACONO, AND MARK HARRIS	64
Methylphenidate's Effects on Paired-Associate Learning and Event-Related Potentials of Young Adults JOAN T. BRUMAGHIM AND RAFAEL KLORMAN	73
A Test of the Validity of the Method of Constant Stimuli as an Index of Heartbeat Detection TAMERA R. SCHNEIDER, CHRISTOPHER RING, AND EDWARD S. KATKIN	86
Preparing the Heart, Eye, and Brain: Foreperiod Length Effects in a Nonaging Paradigm J. RICHARD JENNINGS, MAURITS W. VAN DER MOLEN, AND STUART R. STEINHAEUER	90
Methodology	
Jackknife-Based Method for Measuring LRP Onset Latency Differences JEFF MILLER, TUI PATTERSON, AND ROLF ULRICH	99
Single-Sweep Analysis of the Theta Frequency Band During an Auditory Oddball Task JULIANA YORDANOVA AND VASIL KOLEV	116
Brief Report	
ECG Artifacts and Heart Period Variability: Don't Miss a Beat! GARY G. BERNTSON AND JEFFREY R. STOWELL	127
Announcement and Erratum	133

VOLUME 35 ■ MARCH 1998 ■ NUMBER 2

SPECIAL ISSUE: NEUROIMAGING AND PSYCHOPHYSIOLOGY

Minding the Body MARTA KUTAS AND KARA D. FEDERMEIER	135
--------------------------------------------------------	-----

Contents for Volume 35, 1998

VOLUME 35 ■ JANUARY 1998 ■ NUMBER 1

Call for Papers	iii
On the Status of Individual Response Specificity MICHAEL MARWITZ AND GERHARD STEMMLER	1
Heart Period Variability of Trained and Untrained Men at Rest and During Mental Challenge STEPHEN H. BOUTCHER, F.W. NUGENT, PETER F. MCLAREN, AND ARTHUR L. WELTMAN	16
Stimulus Context Determines P3a and P3b JUN'ICHI KATAYAMA AND JOHN POLICH	23
Postperceptual Effects and P300 Latency HARTMUT LEUTHOLD AND WERNER SOMMER	34
Hemodynamics During Rest and Behavioral Stress in Normotensive Men at High Risk for Hypertension WILLIAM R. LOVALLO AND MUSTAFA AL'ABSI	47
Brain ERPs of Depressed Patients to Complex Tones in an Oddball Task: Relation of Reduced P3 Asymmetry to Physical Anhedonia GERARD E. BRUDER, CRAIG E. TENKE, JAMES P. TOWEY, PAUL LEITE, REGAN FONG, JONATHAN E. STEWART, PATRICK J. MCGRATH, AND FREDERIC M. QUITKIN	54
Development of Oculomotor Functioning in Preadolescence, Adolescence, and Adulthood JOANNA KATSANIS, WILLIAM G. IACONO, AND MARK HARRIS	64
Methylphenidate's Effects on Paired-Associate Learning and Event-Related Potentials of Young Adults JOAN T. BRUMAGHIM AND RAFAEL KLORMAN	73
A Test of the Validity of the Method of Constant Stimuli as an Index of Heartbeat Detection TAMERA R. SCHNEIDER, CHRISTOPHER RING, AND EDWARD S. KATKIN	86
Preparing the Heart, Eye, and Brain: Foreperiod Length Effects in a Nonaging Paradigm J. RICHARD JENNINGS, MAURITS W. VAN DER MOLEN, AND STUART R. STEINHAEUER	90
Methodology	
Jackknife-Based Method for Measuring LRP Onset Latency Differences JEFF MILLER, TUI PATTERSON, AND ROLF ULRICH	99
Single-Sweep Analysis of the Theta Frequency Band During an Auditory Oddball Task JULIANA YORDANOVA AND VASIL KOLEV	116
Brief Report	
ECG Artifacts and Heart Period Variability: Don't Miss a Beat! GARY G. BERNTSON AND JEFFREY R. STOWELL	127
Announcement and Erratum	133

VOLUME 35 ■ MARCH 1998 ■ NUMBER 2

SPECIAL ISSUE: NEUROIMAGING AND PSYCHOPHYSIOLOGY

Minding the Body MARTA KUTAS AND KARA D. FEDERMEIER	135
--------------------------------------------------------	-----

Mental Rotation of Objects Versus Hands: Neural Mechanisms Revealed by Positron Emission Tomography STEPHEN M. KOSSLYN, GREGORY J. DIGIROLAMO, WILLIAM L. THOMPSON, AND NATHANIEL M. ALPERT	151
Relations Between PET-Derived Measures of Thalamic Glucose Metabolism and EEG Alpha Power CHRISTINE L. LARSON, RICHARD J. DAVIDSON, HEATHER C. ABERCROMBIE, ROBERT T. WARD, STACEY M. SCHAEFER, DAREN C. JACKSON, JAMES E. HOLDEN, AND SCOTT B. PERLMAN	162
Cortical Control of Human Classical Conditioning: Autonomic and Positron Emission Tomography Data KENNETH HUGDAHL	170
Functional Neuroanatomical Correlates of Electrodermal Activity: A Positron Emission Tomographic Study MATS FREDRIKSON, TOMAS FURMARK, MARIA TILLFORS OLSSON, HÅKAN FISCHER, JESPER ANDERSSON, AND BENGT LÅNGSTRÖM	179
Prefrontal Cortex Glucose Metabolism and Startle Eyeblick Modification Abnormalities in Unmedicated Schizophrenia Patients ERIN A. HAZLETT, MONTE S. BUCHSBAUM, M. MEHMET HAZNEDAR, MELISSA B. SINGER, MARIA K. GERMANS, DAVID B. SCHNUR, EDWARD A. JIMENEZ, BRADLEY R. BUCHSBAUM, AND BILL T. TROYER	186
Emotional Arousal and Activation of the Visual Cortex: An fMRI Analysis PETER J. LANG, MARGARET M. BRADLEY, JEFFREY R. FITZSIMMONS, BRUCE N. CUTHBERT, JAMES D. SCOTT, BRADLEY MOULDER, AND VIJAY NANGIA	199
Processing of Novel Sounds and Frequency Changes in the Human Auditory Cortex: Magnetoencephalographic Recordings KIMMO ALHO, ISTVÁN WINKLER, CARLES ESCERA, MINNA HUOTILAINEN, JUHA VIRTANEN, IIRO P. JÄÄSKELÄINEN, EERO PEKKONEN, AND RISTO J. ILMONIEMI	211
Announcements	225

VOLUME 35 ■ MAY 1998 ■ NUMBER 3

Cerebral Event-Related Potentials Associated With Selective Attention to Color: Developmental Changes From Childhood to Adulthood ODIN VAN DER STELT, ALBERT KOK, FREN T.Y. SMULDERS, JAN SNEL, AND W. BOUDEWIJN GUNNING	227
Neurophysiological Evidence for Visual Perceptual Categorization of Words and Faces Within 150 ms HALINE E. SCHENDAN, GIORGIO GANIS, AND MARTA KUTAS	240
Secretory Immunoglobulin A and Cardiovascular Reactions to Mental Arithmetic and Cold Pressor GONNEKE WILLEMSSEN, CHRISTOPHER RING, DOUGLAS CARROLL, PHIL EVANS, ANGELA CLOW, AND FRANK HUCKLEBRIDGE	252
Selective Attention and N400 Attenuation With Spoken Word Repetition TSUNETAKA OKITA AND TETSUYA JIBU	260
Topography of CNV and PINV in Schizotypal Personality C. KLEIN, B. ANDRESEN, P. BERG, H. KRÜGER, AND B. ROCKSTROH	272
Magnetoencephalographic Recordings Demonstrate Attentional Modulation of Mismatch-Related Neural Activity in Human Auditory Cortex MARTY G. WOLDORFF, STEVEN A. HILLYARD, CHRIS C. GALLAN, SCOTT R. HAMPSON, AND FLOYD E. BLOOM	283
Event-Related Potentials and Serial Position Effects in a Visual Probe Recognition Task STEPHEN L. CRITES, JR., JAMES V. DEVINE, DORA I. LOZANO, AND SELENE MORENO	293
Wrist Actigraph Measures of Physical Activity Level and Ambulatory Blood Pressure in Healthy Elderly Persons DAVID SHAPIRO AND IRIS B. GOLDSTEIN	305
ERP Effects of Intermodal Attention and Cross-Modal Links in Spatial Attention MARTIN EIMER AND ERICH SCHRÖGER	313

Effect of Self-Focused Attention on the Startle Reflex, Heart Rate, and Memory Performance Among Socially Anxious and Nonanxious Individuals GEORGIA PANAYIOTOU AND SCOTT R. VRANA	328
Methodology	
The Ensemble-Averaged Impedance Cardiogram: An Evaluation of Scoring Methods and Interrater Reliability ROBERT M. KELSEY, SARAH REIFF, STEFAN WIENS, TAMERA R. SCHNEIDER, ELIZABETH S. MEZZACAPPA, AND WILLIAM GUETHLEIN	337
Brief Reports	
Assessing Parental History of Hypertension: Father (and Mother) Knows Best! CHRISTOPHER R. FRANCE AND GARY D. PAGE	341
Probing Affective Pictures: Attended Startle and Tone Probes BRUCE N. CUTHBERT, HARALD T. SCHUPP, MARGARET BRADLEY, MARK MCMANIS, AND PETER J. LANG	344
Special Report	
Memory-Driven Processing in Human Medial Occipital Cortex: An Event-Related Optical Signal (EROS) Study GABRIELE GRATTON, MONICA FABIANI, MARSHA R. GOODMAN-WOOD, AND M. CATHERINE DESOTO	348
Book Review	
<i>Psychophysiology: The Mind-Body Perspective</i> , by Kenneth Hugdahl RICHARD J. DAVIDSON	352
Announcements	354

VOLUME 35 ■ JULY 1998 ■ NUMBER 4

Mismatch Negativity in Dichotic Listening: Evidence for Interhemispheric Differences and Multiple Generators LEON Y. DEOUELL, SHLOMO BENTIN, AND MARIE-HELENE GIARD	355
On the Automaticity of Ipsilateral Response Activation in the Simon Effect FERNANDO VALLE-INCLÁN AND MILAGROS REDONDO	366
Frontal Brain Asymmetry and Affective Style: A Conceptual Replication DIRK HAGEMANN, EWALD NAUMANN, GABRIELE BECKER, STEFANIE MAIER, AND DIETER BARTUSSEK	372
Resting Frontal Electroencephalographic Asymmetry in Depression: Inconsistencies Suggest the Need to Identify Mediating Factors STEPHANIE A. REID, LISA M. DUKE, AND JOHN J.B. ALLEN	389
Effect of Feedback Signal and Psychological Characteristics on Blood Pressure Self-Manipulation Capability SAROJ K.L. LAL, ROBYN J. HENDERSON, NORMAN CARTER, ANDREW BATH, MICHAEL G. HART, PAULINE LANGELOUDECKE, AND STEPHEN N. HUNYOR	405
Automatic Change Detection: Does the Auditory System Use Representations of Individual Stimulus Features or Gestalts? DIANA DEACON, JO MANETTE NOUSAK, MAURA PILOTTI, WALTER RITTER, AND CHIEN-MING YANG	413
Influence of Respiratory Activity on the Cardiac Response Pattern to Mental Effort MONIKA ALTHAUS, LAMBERTUS J.M. MULDER, GIJSBERTUS MULDER, ARIE M. VAN ROON, AND RUUD B. MINDERAA	420
Scaling of Movement Velocity: A Measure of Neuromotor Retardation in Individuals with Psychopathology MICHAEL P. CALIGIURI, JAMES B. LOHR, AND ROBERT K. RUCK	431

Maternal Exposure to Influenza in Pregnancy and Electrodermal Activity in Offspring: A Further Study from Mauritius PETER H. VENABLES	438
A Longitudinal Analysis of Eye Tracking Dysfunction and Attention in Recent-Onset Schizophrenia CINDY M. YEE, KEITH H. NUECHTERLEIN, AND MICHAEL E. DAWSON	443
Effects of Stimulus Modality and Task Condition on Blink Startle Modification and on Electrodermal Responses OTTMAR V. LIPP, DAVID A.T. SIDDLE, AND PATRICIA J. DALL	452
Physiological Response to a Minimal Social Encounter: Effects of Gender, Ethnicity, and Social Context SCOTT R. VRANA AND DAVID ROLLOCK	462
Methodology	
Testing Treatment Effects in Repeated Measures Designs: An Update for Psychophysiological Researchers H.J. KESELMAN	470
Book Review	
<i>Brain Asymmetry</i> , edited by Richard J. Davidson and Kenneth Hugdahl REBECCA J. COMPTON AND WENDY HELLER	479
Announcement	482

VOLUME 35 ■ SEPTEMBER 1998 ■ NUMBER 5

Binaural Information Can Converge in Abstract Memory Traces PETRI PAAVILAINEN, MARIA JARAMILLO, AND RISTO NÄÄTÄNEN	483
Quantification of Physical Activities by Means of Ambulatory Accelerometry: A Validation Study HANS B.J. BUSSMAN, JOKE H.M. TULEN, EVA C.G. VAN HEREL, AND HENK J. STAM	488
P300 and Handedness: On the Possible Contribution of Corpus Callosal Size to ERPs JOHN POLICH AND LISA D. HOFFMAN	497
Effects of Aging on the Novelty P3 during Attend and Ignore Oddball Tasks DAVID FRIEDMAN, VICTORIA A. KAZMERSKI, AND Yael M. CYCOWICZ	508
Heart Period Variability and Psychopathology in Urban Boys at Risk for Delinquency DANIEL S. PINE, GAIL A. WASSERMAN, LAURIE MILLER, JEREMY D. COPLAN, EMILIA BAGIELLA, PAVEL KOVELENKU, MICHAEL M. MYERS, AND RICHARD P. SLOAN	521
Facial Electromyographic Responses to Vocal Affect Expressions JARI K. HIETANEN, VEIKKO SURAKKA, AND ILKKA LINNANKOSKI	530
Movement-Related Potentials Accompanying Unilateral Finger Movements with Special Reference to Rate of Force Development S.M. SLOBOUNOV, W.J. RAY, AND R.F. SIMON	537
Effects of Static Forehead and Forearm Muscle Tension on Total Respiratory Resistance in Healthy and Asthmatic Participants THOMAS RITZ, BERNHARD DAHME, AND CLAUS WAGNER	549
Input and Central Processing Expressed in ERP and Heart Rate Changes to Rare Target and Rare Nontarget Stimuli ROBERT F. SIMONS, FRANCES K. GRAHAM, MARK A. MILES, AND MARIE T. BALABAN	563
Dissociation of Brain ERP Topographies for Tonal and Phonetic Oddball Tasks JÜRGEN KAYSER, CRAIG E. TENKE, AND GERARD E. BRUDER	576
Prestimulus EEG Alpha Phase Synchronicity Influences N100 Amplitude and Reaction Time ALBERT R. HAIG AND EVIAN GORDON	591
Taking the Laboratory to the Skies: Ambulatory Assessment of Self-Report, Autonomic, and Respiratory Responses in Flying Phobia FRANK H. WILHELM AND WALTON T. ROTH	596

- Anterior Electrophysiological Asymmetries, Emotion, and Depression: Conceptual and Methodological Conundrums
RICHARD J. DAVIDSON 607

Brief Report

- Temporal Window of Integration of Auditory Information in the Human Brain
HIROOKI YABE, MARI TERVANIEMI, JANNE SINKKONEN, MINNA HUOTILAINEN,
RISTO J. ILMONIEMI, AND RISTO NÄÄTÄNEN 615

VOLUME 35 ■ NOVEMBER 1998 ■ NUMBER 6

Presidential Address, 1998

- Identifying Psychophysiological Risk for Psychopathology: Examples from Substance Abuse and Schizophrenia Research
WILLIAM G. IACONO 621
- The Contralateral Organization of Visual Memory: A Theoretical Concept and a Research Tool
GABRIELE GRATTON 638
- Psychophysiological Measures of (Dis)inhibition as Liability Indicators for Schizophrenia
BRETT A. CLEMENTZ 648
- Memory Changes with Normal Aging: Behavioral and Electrophysiological Measures
CARRIE A. JOYCE, KEN A. PALLER, HEATHER K. McISAAC, AND MARTHA KUTAS 669
- Extreme Prematurity in Healthy 5-Year-Old Children: A Re-analysis of Sex Effects on Event-Related Brain Activity
MARC E. LAVOIE, PHILIPPE ROBAEY, JOHANNES E.A. STAUDER, JACQUELINE GLORIEUX,
AND FRANCINE LEFEBVRE 679
- Optimal EMG Signal Bandwidth and Interelectrode Distance for the Recording of Acoustic, Electrocutaneous, and Photic Blink Reflexes
A. VAN BOXTEL, A.J.W. BOELHOUWER, AND A.R. BOS 690
- Individual Differences in P3 Scalp Distribution in Older Adults, and their Relationship to Frontal Lobe Function
MONICA FABIANI, DAVID FRIEDMAN, AND JEFF C. CHENG 698
- Event-Related Potentials of Verbal Encoding into Episodic Memory: Dissociation between the Effects of Subsequent Memory Performance and Distinctiveness
GUILLÉN FERNÁNDEZ, HELGA WEYERTS, INDIRA TENDOLKAR, HENDERIKUS G.O.M. SMID,
MICHAEL SCHOLZ, AND HANS-JOCHEN HEINZE 709
- Motor Programming of Response Force and Movement Direction
ROLF ULRICH, HARTMUT LEUTHOLD, AND WERNER SOMMER 721
- Extinction in Fear Conditioning: Effects on Startle Modulation and Evaluative Self-Reports
DEBORA VANSTEENWEGEN, GEERT CROMBEZ, FRANK BAEYENS, AND PAUL EELEN 729
- Contingent Negative Variation and Cognitive Performance in Hypotension
MARCO COSTA, LUCIANO STEGAGNO, RAINER SCHANDRY, AND PIO ENRICO RICCI BITTI 737
- Variable Cerebral Responses to Equally Distinct Deviance in Four Auditory Dimensions: A Mismatch Negativity Study
LEON Y. DEOUELL AND SHLOMO BENTIN 745
- Special Report**
- Speeded Responses to Audiovisual Signal Changes Result from Bimodal Integration
ERICH SCHRÖGER AND ANDREAS WIDMANN 755
- Announcements** 760
- Consulting Editors for Volume 35, 1998** 761
- Indices and Contents for Volume 35, 1998** 763

